Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: KeeSun Corporation
Well Name/Number: KeeSun #3-16 State
Location: NE NW Section 16 T36N R01W
County: Toole MT; Field (or Wildcat) Wildcat
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Air Quality
(possible concerns)
Long drilling time: No, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, about
500 HP (Estimated) to drill to 4300' TD, Sunburst/Madison/Souris River Formation test.
Possible H2S gas production: No H2S anticipated.
In/near Class I air quality area: No not in a Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
under 75-2-211.
Mitigation:
X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: No special concerns – using small rig to drill to 4300' TD. If there
aren't any gas gathering system nearby, associated gas can be flared under Board Rule
36.22.1220.
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Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.
High water table: No high water table anticipated.
Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral
drainage, about 1/10 of a mile to the south from this location. A stock pond exists 1/5 of
a mile and 2/5 of a mile to the west. A couple stock ponds exist 3/10 of a mile to the
southwest and one stock pond about a mile to the southwest.
Water well contamination: No, water wells within a 1 mile radius around this location.
Surface hole in this well will be drilled to 500' with freshwater and/or air. Steel surface
casing will be run and cemented to surface to protect ground water. (Rule 36.22.1001)
Porous/permeable soils: No, sandy silty bentonitic soils.
Class I stream drainage: No Class I stream drainages.
Mitigation:
Lined reserve pit
X Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Olosed find system Off-site disposal of solids/liquids (in approved facility)
Other:
Comments: 500' of surface casing cemented to surface adequate to protect
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freshwater zones (Rule 36.22.1001) Also, air/air mist and/or fresh water mud systems to

be used.

Soils/Vegetation/Land Use

(possible concerns) Steam crossings: No, stream crossings anticipated. High erosion potential: No, small cut, up to 1.9' and small fill, up to 3.2', required. Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed. Unusually large wellsite: No, 200'X200' location size required. Damage to improvements: Slight, surface use is a grassland. Conflict with existing land use/values: Slight Mitigation
 Avoid improvements (topographic tolerance) Exception location requested X Stockpile topsoil Stream Crossing Permit (other agency review) X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation Other
Comments: Access will be over existing county road S-552, Kohles Road, and existing two track trail/lease road. About 990' of access will be built off the existing two track trail/lease road into this location. Cuttings will be buried in and unlined earthen pit. Drilling fluids if used will be allowed to dry in the pit. Pits will be backfilled after drying. No special concerns.
Health Hazards/Noise
(possible concerns) Proximity to public facilities/residences: Residence located 7/10 of a mile and 1.8 miles to the northeast from this location. Another residence is located about 2 miles north from this location. The town of Sunburst, Montana is about 7.5 miles to the west and the town of Kevin, Montana is about 13.5 miles to the south southwest from this location. Possibility of H2S: No H2S anticipated. Size of rig/length of drilling time: Small drilling rig/short 3 to 4 days drilling time. Mitigation: X Proper BOP equipment Topographic sound barriers H2S contingency and/or evacuation plan Special equipment/procedures requirements Other: Comments: Adequate surface casing and operational BOP (3,000 psi annular) should mitigate any problems. (BOP's 3,000 psig annular) Rule 36.22.1014. No
<u>concerns</u>
Wildlife/recreation
(possible concerns) Proximity to sensitive wildlife areas (DFWP identified): None identified. Proximity to recreation sites: None identified. Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No

Threatened or endangered Species: Only species identified as threatened or endangered is the Black-footed Ferret. Candidate species listed is the Sprague's Pipit. NH tracker website lists two (2) species of concern: Baird's Sparrow and Sprague's Pipit.
Mitigation: Avoidance (topographic tolerance/exception) X Other agency review (DFWP, federal agencies, DNRC Trust Lands) Screening/fencing of pits, drillsite Other:
Comments: <u>DNRC Trust Lands surface grazing lands</u> . No concerns
Historical/Cultural/Paleontological (possible concerns)
Proximity to known sites: None identified Mitigation
avoidance (topographic tolerance, location exception) X other agency review (SHPO, DNRC Trust Lands L, federal agencies) Other:
Comments: DNRC Trust Lands surface grazing lands. No concerns.
Social/Economic (possible concerns)
 Substantial effect on tax base Create demand for new governmental services Population increase or relocation Comments: No concerns.
Remarks or Special Concerns for this site
Well is a wildcat, 4300' Sunburst/Madison/Souris River Formation test.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected. Some short term impacts will occur, but can be mitigated.
I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.
Prepared by (BOGC): /s/ John Gizicki (title:) Compliance Specialist Date: June 06, 2014
Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Toole County water wells.
(subject discussed)
<u>June 06, 2014</u> (date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES
MONTANA COUNTIES, Toole County
(subject discussed)
<u>June 06, 2014</u>
(date)
Montana Natural Heritage Program Website (FWP)
(Name and Agency)
Heritage State Rank= S1, S2, S3, T36N R1W
(subject discussed)
June 06, 2014
<u>June 06, 2014</u> (date)
(date)
Montana Cadastral Website
(Name and Agency)
Surface Ownership and surface use Section 16 T36N R1W
(subject discussed)
<u>June 06, 2014</u> (date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: